

Application No.: 10/726,464

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Docket No.: 297912006402

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A non-compliant medical balloon, where the non-compliant medical balloon may be changed from a deflated state to an inflated state by increasing pressure ~~within~~ applied to an interior surface of the balloon, said interior surface of the balloon having a predetermined longitudinal length, comprising:

a first fiber layer;

a second fiber layer over said first fiber layer such that the fibers of the first fiber layer and the fibers of the second fiber layer form an angle; and

a binding layer coating the first fiber layer and ~~said~~ the second fiber layer;

wherein the longitudinal length [extension] of the non-compliant medical balloon remains substantially unchanged when the balloon changes from a deflated state to an inflated state.

2. (Original) The non-compliant medical balloon of claim 1, wherein said first fiber layer comprises inelastic fibers.

3. (Original) The non-compliant medical balloon of claim 1, wherein said first fiber layer comprises a plurality of parallel first fibers.

4. (Original) The non-compliant medical balloon of claim 1, further comprising an adhesive layer adhering to said first fiber layer.

5. (Original) The non-compliant medical balloon of claim 1, wherein said second fiber layer comprises a plurality of parallel second fibers.

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6. (Original) The non-compliant medical balloon of claim 1, wherein said angle is substantially a right angle.

7. (Original) The non-compliant medical balloon of claim 1, wherein said angle does not change when the balloon changes from a deflated state to an inflated state.

8. (Original) The non-compliant medical balloon of claim 3, wherein said plurality of parallel first fibers are substantially parallel to the longitudinal axis of the balloon.

9. (Original) The non-compliant medical balloon of claim 5, wherein said plurality of parallel second fibers are substantially transverse to the longitudinal axis of the balloon.

10. (Original) The non-compliant medical balloon of claim 1, wherein said binding layer is a polymeric coating.

11. (Original) The non-compliant medical balloon of claim 10, wherein said polymeric coating is formed of a polymer.

12. (Original) The non-compliant medical balloon of claim 10, wherein said polymeric coating is formed of a copolymer.

13. (Original) The non-compliant medical balloon of claim 3, wherein said parallel first fibers each have a thickness of about 0.0005 inch.

14. (Original) The non-compliant medical balloon of claim 5, wherein said parallel second fibers each have a thickness of about 0.0005 inch.

15. (Original) The non-compliant medical balloon of claim 5, wherein said parallel second fibers have a wind density of approximately 50 wraps per inch.

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16. (Original) The non-compliant medical balloon of claim 1, wherein said angle is about ten degrees.

17. (Original) The non-compliant medical balloon of claim 1, further comprising a third fiber layer on said second fiber layer.

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